

CRAYFISH DISSECTION LAB

INTRODUCTION: If numbers alone are used as a measure of success, arthropods are the most successful animals on Earth. Their adaptations are more specialized, allowing them to survive in many areas.

Sense organs, such as eyes and antennae, muscles arranged in groups, jointed legs, and a protective body covering have made it possible for these animals to become more successful than any other group of animals. Although jointed-legged animals vary greatly in structure, the basic body plan is the same.

The crayfish is a large aquatic arthropod, which means it carries its skeleton on the outside. Because of its size, and representative anatomy of the jointed-legged animals, it is a useful dissection specimen. Please use this experience to study the general organization of the external anatomy of this group of animals.

PURPOSE: To examine the crayfish as a representative example of the jointed-legged animals and to analyze the adaptations that allow it to thrive.

STANDARDS:

- 1.4 Write in various modes in all content areas
- 1.5 Produce writing of high quality
- 3.1.C Explain the parts of a simple system and their relationship to each other
- 3.3.A Describe the similarities and differences that characterize diverse living things.
- *How do animals adapt to their environment



EXTERNAL ANATOMY

PROCEDURE AND OBSERVATIONS:

- A. Put on goggles, a lab apron and gloves. Place the crayfish in the dissecting tray with its top side up. Like all crustaceans, a crayfish has an exoskeleton that covers its body. Look at the exoskeleton and find the two sections, the cephalothorax and the abdomen. The part of the exoskeleton that covers the cephalothorax is called the carapace. The abdomen is behind the cephalothorax and is also divided into sections. Count them. The abdomen ends in a segment called the telson.

1. How is the exoskeleton adapted to life on the bottom of the ocean?

- B. The carapace extends toward the front of the animal's body and forms a hard beak called the rostrum. Find the compound eyes that lie beneath the rostrum. Examine the eyes with a hand lens and see if you can observe the many lens facets that make up a compound eye. Observe the diagrams and models of lens facets/compound eyes provided by your teacher.

2. What is the difference between a compound eye and your eye?

Crayfish Dissection Investigation 30a Answers

Flinn Scientific, Incorporated



Crayfish Dissection Investigation 30a Answers:

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